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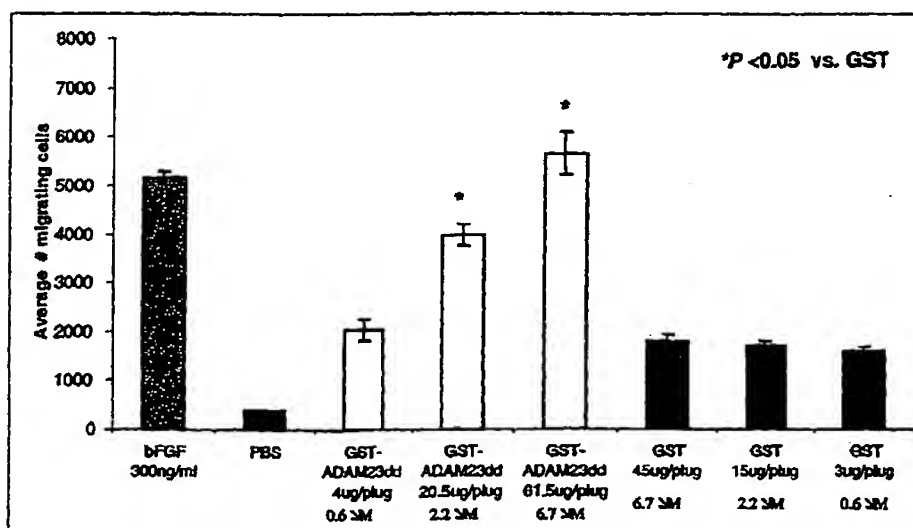
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[Continued on next page]

(54) Title: METHODS AND COMPOSITIONS FOR MODULATING INTEGRIN-MEDIATED CELL-CELL INTERACTIONS



(57) Abstract: Compositions and methods are provided for identifying and designing modulators of integrin-mediated cell-cell interactions through altering the interaction of ADAM 23 with  $\alpha v \beta 3$  integrin. Compositions and methods are also provided for modulating integrin-mediated cell-cell interactions such as those involved in angiogenesis, induction of active metalloproteinases, tumor progression and neural tissue growth.

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LOCUS AX299710 4043 bp DNA linear PAT 26-NOV-2001  
 DEFINITION Sequence 2 from Patent WO0174857.  
 ACCESSION AX299710  
 VERSION AX299710.1 GI:17129252  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1  
 AUTHORS Lopez-Otin, C., Freiji, J.M., Bianchi, A.B., Miguel, S.C., Garcia, J.M.  
 and Trail, P.  
 TITLE Methods and compositions for modulating integrin-mediated cell-cell  
 interactions  
 JOURNAL Patent: WO 0174857-A 2 11-OCT-2001;  
 Bristol-Myers Squibb Co. (US)

Query Match 86.7%; Score 1965.4; DB 6; Length 4043;  
 Best Local Similarity 99.7%; Pred. No. 0;  
 Matches 1969; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Qy	627	CTTGTGGATTCTATTTACAAGGAGCAGCTCAACACCAGGGTTGTCCTGGTGGCTGTAGAG	686
Db	2010	CTTGTGGATTCTATTTACAAGGAGCAGCTCAACACCAGGGTTGTCCTGGTGGCTGTAGAG	2069
Qy	687	ACCTGGACTGAGAAGGATCAGATTGACATCACCACCAACCCTGTGCAGATGCTCCATGAG	746
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Db	2130	TTCTCAAAATACCGGCAGCGCATTAAAGCAGCATGCTGATGCTGTGCACCTCATCTCGCGG	2189
Qy	807	GTGACATTTCACTATAAGAGAAGCAGTCTGAGTTACTTTGAAGGTGTCTGTTCTCGCACA	866
Db	2190	GTGACATTTCACTATAAGAGAAGCAGTCTGAGTTACTTTGGAGGTGTCTGTTCTCGCACA	2249
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Qy	1047	TTTTCAAAGTGCAGCATTTTGGAGTATAGAGACTTTTTACAGAGAGGAGGTGGAGCCTGC	1106
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Qy	1107	CTTTTCAACAGGCCAACAAAGCTATTTGAGCCACGGAATGTGGAAATGGATACGTGGAA	1166
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Qy	1167	GCTGGGGAGGAGTGTGATTGTGGTTTTTCATGTGGAATGCTATGGATTATGCTGTAAGAAA	1226
Db	2550	GCTGGGGAGGAGTGTGATTGTGGTTTTTCATGTGGAATGCTATGGATTATGCTGTAAGAAA	2609
Qy	1227	TGTTCCCTCTCCAACGGGGCTCACTGCAGCGACGGGCCCTGCTGTAACAATACCTCATGT	1286
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 Db 3210 AATATGAGCAGCTGTCCACTCGATTCCAAGGGTAAAGTCTGTTTCGGGCCATGGGGTGTGT 3269  
  
 Qy 1887 AGTAATGAAGCCACCTGCATTTGTGATTTACCTGGGCAGGGACAGATTGCAGTATCCGG 1946  
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 Db 3330 GATCCAGTTAGGAACCTTCACCCCCCAAGGATGAAGGACCCAAGGGTCCTAGTG 3384

LOCUS AX299710 4043 bp DNA linear PAT 26-NOV-2001  
 DEFINITION Sequence 2 from Patent WO0174857.  
 ACCESSION AX299710  
 VERSION AX299710.1 GI:17129252  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1  
 AUTHORS Lopez-Otin,C., Freiji,J.M., Bianchi,A.B., Miguel,S.C., Garcia,J.M.  
 and Trail,P.  
 TITLE Methods and compositions for modulating integrin-mediated cell-cell  
 interactions  
 JOURNAL Patent: WO 0174857-A 2 11-OCT-2001;  
 Bristol-Myers Squibb Co. (US)

Alignment Scores:

Pred. No.:	5.79e-304	Length:	4043
Score:	3621.00	Matches:	654
Percent Similarity:	99.70%	Conservative:	0
Best Local Similarity:	99.70%	Mismatches:	2
Query Match:	93.86%	Indels:	0
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US-09-809-617-2 (1-696) x AX299710 (1-4043)

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Qy	109	GluProLeuGluLeuValHisAspGluLysSerThrGlyArgProHisIleIleGlnLys	128
Db	1710	GAGCCACTAGAGCTGGTTCATGATGAGAAAAGCACAGGTCGACCACATATAATCCAGAAA	1769
Qy	129	ThrLeuAlaGlyGlnTyrSerLysGlnMetLysAsnLeuThrMetGluArgGlyAspGln	148
Db	1770	ACCTTGGCAGGACAGTATTCTAAGCAAATGAAGAATCTCACTATGGAAAGAGGTGACCAG	1829
Qy	149	TrpProPheLeuSerGluLeuGlnTrpLeuLysArgArgLysArgAlaValAsnProSer	168
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 Db 2070 ACCTGGACTGAGAAGGATCAGATTGACATCACCACCAACCCTGTGCAGATGCTCCATGAG 2129  
  
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Qy	509	ThrGluGlyThrGluLysGlyAsnCysGlyLysAspGlyAspArgTrpIleGlnCysSer	528
Db	2910	ACAGAAGGCACTGAGAAGGGAACTGCGGGAAGGATGGAGACCGGTGGATTCAAGTGCAGC	2969
Qy	529	LysHisAspValPheCysGlyPheLeuLeuCysThrAsnLeuThrArgAlaProArgIle	548
Db	2970	AAACATGATGTGTTCTGTGGATTCTTACTCTGTACCAATCTTACTCGAGCTCCACGTATT	3029
Qy	549	GlyGlnLeuGlnGlyGluIleIleProThrSerPheTyrHisGlnGlyArgValIleAsp	568
Db	3030	GGTCAACTTCAGGGTGAGATCATTCCAACCTCCTTCTACCATCAAGGCCGGGTGATTGAC	3089
Qy	569	CysSerGlyAlaHisValValLeuAspAspAspThrAspValGlyTyrValGluAspGly	588
Db	3090	TGCAGTGGTGCCCATGTAGTTTTAGATGATGATACGGATGTGGGCTATGTAGAAGATGGA	3149
Qy	589	ThrProCysGlyProSerMetMetCysLeuAspArgLysCysLeuGlnIleGlnAlaLeu	608
Db	3150	ACGCCATGTGGCCCGTCTATGATGTGTTTAGATCGGAAGTGCCTACAAATTCAAGCCCTA	3209
Qy	609	AsnMetSerSerCysProLeuAspSerLysGlyLysValCysSerGlyHisGlyValCys	628
Db	3210	AATATGAGCAGCTGTCCACTCGATTCCAAGGGTAAAGTCTGTTCGGGCCATGGGGTGTGT	3269
Qy	629	SerAsnGluAlaThrCysIleCysAspPheThrTrpAlaGlyThrAspCysSerIleArg	648
Db	3270	AGTAATGAAGCCACCTGCATTTGTGATTTACCTGGGCAGGGACAGATTGCAGTATCCGG	3329
Qy	649	AspProValArgAsnLeuHisProProLysAspGluGlyProLysGly	664
Db	3330	GATCCAGTTAGGAACCTTCACCCCCCAAGGATGAAGGACCCAAGGGT	3377

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